

NAVIGATING A UAV WITH A REMOTE CONTROL DEVICE

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ABSTRACT

35 Navigating a UAV, including receiving in a remote control device a user's selection
of a GUI map pixel that represents a waypoint for UAV navigation, the pixel having a
location on the GUI; mapping the pixel's location on the GUI to Earth coordinates of
40 the waypoint; receiving a starting position from a GPS receiver on the UAV;
calculating a heading in dependence upon the starting position, the coordinates of the
waypoint, and a navigation algorithm; identifying flight control instructions for flying
the UAV on the heading; and transmitting the flight control instructions from the
remote control device to the UAV.

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